



Supercharger



Home Filing Manager Temper Saver MIDI In Practice

British SpartaDOS Time Fun with Stereo Sound on the TT030 and STE 34th Longleat Radio Rally

Choosing a memory upgrade for your Atari ST just got easier!



In your ST always require me of supplied with the BAM disk and prestor

Installation of the Xew-RAM Debox

The Know BAM Delaga Stand MRED shows

Piesee #96 \$3.00 portray and purking to





The cross of \$16 was probable using as Ake 1900, 1900 top door \$200594 SMT20-major

Features The Home Filing Manager Temper Saver . . .

he Bastes Of A Sector ...

un with Stereo Sound on the TT030 & ST ... 18

tariWriter Plus VI For Those Who Don't

skiet 500 Undate

34th Longleat Radio Rally

Notice Board AMS 5

For those of you at the last AMS above AMI held been

(Alternative Macro Show as it was called last year) in the

The show at being held on the 9th Navember at Bingley

New Disk Based Newsletter Door Chromatite value streeted by any time ICO and were for

52 Thomase Avenue, Balloy Decreases 1994 5301

I work a like to thank everyone who entered the competition

Colour Deskiet

Well of reactly Surrow builds have released amount of re-

Want some free advertising?

Frantier Software Lower Prices AGAIN

Forces Me Clack II. \$24.99 As well as these new lower prices Propage Nave

Xing RAM Delicas Clapso Xing RAM Delicas D SMI You PAM Deligas 1969 Xxx-RAM Debuts (MR)



In 8:35 g, save that 6 for can be ported Foundation (Somety Deal Miles in name 1949 of \$250, and papers \$514.

Our professorant degrates, configure

of 8 16 of they are available - perhaps you

articles in the noted? In fact, I would be

MIDI In Practice

have one so your library. J Farkonbodus

Back Issues

I was particularly recessed to read

adding to the atmosphere and the fix are

I also wast to mention the money

coming with the game, it is a large poster

type of game

Lynx Game Review

Ninja Gai Den Reviewed by Thomas Holam

At the end of each level you will

The Home Filing Manager Temper Saver by Derryck Croker

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183768 (line 2)

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| Special State | Special Stat

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ACUTE copy before you may asked up the early and to be possible to a which should up some error. Here is formand fash and fallers the on street prompts certailly in produce you be PAPETS die. The better that it is you propay and your programming fash on well the TAPETs and answer as any programming fash on well the TAPETs and answer to prome of the fast fash on the side. If you do men's a resulting you will no longer bit hall be foot; you for the me too dangers, if you are distances and here allowed from the product of Warring states, and here are produced by PATE data to Warring states, and here are produced by PATE data to Warring states, and here are produced by PATE data to when the product of the product of the product of Warring states.

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20 017 188(1). (688(12). 9168(12). 81612(1)

ASS PASS-2-LIME-190 N-0 4651046 1668 I

* 99508 #59 Listing One : HFMTS Loader and Writer 250 1585 48000 7 0968(125) 9568-* | rest

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Listing Two: HFMTS Source Code

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munder of an program, the run in inneghible-word. Note, ough, that I have edited on the face that the OS will already by an amount of the CCE (Cover Control Block) for me whos loosed BEPCTS before I use it to lead BEPCT both morns to OS will have also set SCEPC (but key prou) in BEP and cool all ECCS is as a part of its own ECSET programs before the Control BEPCS is as a part of its own ECSET programs before the Control BEPCS is as a part of its own ECSET programs before the Control BEPCS is as a part of its own ECSET programs before the Control BEPCS is a set of its own ECSET programs before the Control BEPCS is a set of the Control BEPCS in the Control BEPCS in

Have fun with HTMTS. I hope that it brings additional

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d bese



Ethas been decided so increases the clob membership foor

School ST Edger .

a PD Co-ordinator and assistants. Currently two ST serv-

VCS Reviews

Atan Carp 45:35 Here is a game for all you beskedted freaks. You've spent

choose is a 3 second lase voltation, again adeq, yet or no

Having chosen from the above, press "Test" and start Cutude" competing in this biological transports.

The planers of each years have different observe shifts, for example "Me lende" or yout a rebounding and Navaning the

charges. When your team is on the officers, const. "You" own.

or jump so block a shot. To pry to next, pross "first" while your

The amotors of this carridge are of good quality and the conscionarbettar with human parties because the vicini nonhard to best. Then on the caber band, I must admit I am no

So, all making as an empoyabling panet to play even for a rookur Road Russer

Stantismes a track appears and you must dudge a subervise

The amplied for this game are first next, with the Boad harde going hazark in the weed. The background proches consist of a down with road signs, recentures and prospe, and corollar scrolling is used, even if it me hitle on the lefty ride volume correct slav a white,

Overall, a new with (1989) ewendge for the WCS full of to time your own jump with much accuracy is order to block physiking and canoon like fire. Get a white you can,

MIDI In Practice

Whilst rehearning for the 1991 mediction of 'Oliver' at the selfest combine in the "Who will buy number, onch sangung a dell'orent suno

tion that is 190% overest in each

part can be played using a separate contenter keyboard or the mouse in contraction with the soon of the computer program graphics. The different MIDI channel numbers and my MIDI capable instrumers. The

the tructiculists of it, suitably armed Loadmente 52097 with the season

more files disk I creesed up a file

called 'Oliver', west to oppose on the The Loan Sonn Setter - dited's my

New 10 were the many from the

where they re-occur. Being in the colours for the parts were clearly

As I did not based to use the Aten

By Jack Bartley each mor, playing each back and checking a against the score, editing

the 4 different single measurement which by choscark appeared to be internal Ad-12 and 16 respectively. All that remained to be done was so plug the Kawas output soto a tope recorder.

recorder murrophose socket, so that Haven completed that I shan PC version of Marre Steder bes a capability of working as up to 8 cracks Song Sellor', and a 6th track for the systemore, which or recording I use

tenger to have it on for coursing was coursi when the times had been mastered. If only the rest of the parts oversewood to 'e' times, the task would have taken much best then the namewood hours I spent on a Con-

The Basics Of A Sector

By Nir Darey (Acco, Isrnel)

A disk can be formated and filtrens formate. Sixuals Densery. Service Raued Disk Protection is a ring of magnetic disk (resisting that the track is Bud or Missing Sector. beginning and the middle of a track. Therefore, a secur-

Space 2. This space stust be 17 bytes long. Space 3 This space should be ever note bross long. This

is found, it compares the acctor number and the unch

checked for validity. If the secon is never found the

(1 - 16) Two byte ORC written on format

This rector occurs when

sorrie in checked. Whos

This occurs when two or

A short sector at a sector

It is element impossible to control and change the sector

Well, that's all that I can say about the securi. House

British SpartaDOS Time. Get the SparsaDOS Real Time Clack to Keen Proper Time

normal use. This coucuse was also made by John S. a PAL system and 50Hz VBI scales the clock 'ook' that

Let's start with a title background information. The

The Method

sew-Mare energys on files, and by the TDLINE utility in

500000C = 60 afficulos: 5000610 = 3600 (Dies/min

\$412200 = 4320000 withouter

To make shings difficult the relevant routine is nearly

tocked away in the RAM underlying the OS ROM. Mr. metral externets to petch that code to sea, after leading

computer as normal - but now with a clock running at the

to our more familiar form of Day-Moods-Year What

The revised constant values are packed irao the values to change the date format occurs between file #00mmen \$1880x\$1850 for output, and \$30x0x\$306x for Remember to UNLOCK the copy dwg and

UNPROTECT the files to be peached before rinning the

E18 have 13

By Terry Chamberlain

Secure the internal time-of-day clock in device by the Inhabiting Deferred VIII processing for happens during UC

And before anyone loops to protest. I have to admit that the clock and mutualisability slow by about 10 seconds per they, and cannot be adjusted through any software fig. 10 you're not happy with this you'll per have as go out and buy

SPRETHERS TIRE AND DATE

200 2-0 018 08(12),F8(15)-F8(1,0)-*51-210 Tur. It "lasert Secreta008 Star In 7 * Prace (SETURE) Uses Soudy

270 CLOSE *1 OPER *1,9,0,F\$ POINT *1,8

8-Bit Review Desert Falcon Chan Corp.

Cathdan 3507 £12.99

makes not a lot of delicrones. The enemy not only account

Russian

Multiplication

By Simon Trew

scenia Miniprotes i a tyrini e nautpictaci Eni seoni quae vehose bu offen consdendia i over our normal malifpicasca system.

How To Perform Russen Mahalicates

The best way in describe it is to demonstrate. In Russia Multiplication, the method to multiply 19 by 17 (asy) is a follows:

s) The two members are wereno down add by add, and the left-band number in halved and the inglishand one is doubled. The enable of this are placed on the lase below and the processing you will be left-hand numbers requal to one (when halving, any fraction is ignosed). Thus:



b) The bren where the left-hand number is even any proceed out, and the comments numbers in the right-hand column are added to give the mestic.

222 = 12 - 34 = 222

The method looks long worlded but in facinopoint a unful method of mental architecture, and thur note advantaged ever method method possess, "The unity method by the lable to add method registers by military's remained by 2 years and first section and a surely mode to remained the remained and an advantage of the remained or section. The remained of the remained remained or the remained of the remained remained or the remaining of the remaining remained or the remaining of the remaining remaining or the remaining of the remaining remaining or the remaining of the remaining remaining or the remaining or the remaining of the remaining remaining or the remaining or th

(1008) (77 decimal) (1008) (77 decimal) (1008) (77 decimal) (1008) (77 decimal) (1008) (77 decimal)

100910090 101900811 gut. The Random method can be seen fully when it is wretten out as a translated multiply has using the binary been, see Enample 1. It is obnounced to whenever the top number (17) in to be

analogished as away, then the needs is seen. When couplings by one, the result is the state as the stap number (17) but we as seen is let rught (see is when some decental). This is in it is exactly what the Realization method done, so you cross contail to when that correspond to the multiplets by zero, and the rught you said up, as they are already shaffled.

or What's The Point!
not The Review method

hardly obligated very all writing a mediuply year code. To envelopely "b" by "c", just shift, "b" so the siby revolved that "c" so the regland reduced by value of "b" as a researing soul of "a" is edd (b) to be come. I be a description of the stope where "c".

take most stake than them are digits in beforming number of cample, if we did fiche manipulation has 12" are cample, if we did fiche manipulation has 12" are stake in Suffix in most. Obviously if it maches I before that any subsequent, shelly made 12" regard most fire docartised the mass of the competition of cromer incom 2" as cold to the value of 12" as well added to the mining seed. 7 precise could for those you appreciate any.

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If a le wid | beau

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and if

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shift b | aft

ndehile

for lamp = 1 to 18 If 4 to odd than odd b to total and f shift a right shift b laft

Phili. It is not rever deficult to see that 'c' has reached any.
(This does make the restine a little litter efficient serces and it be performing mentions cycles for some cambars.) A machine role is provided for some cambars. A machine role is provided for some cambars and admission

If you set the PACTS and PACTC words to two 15-bit cumbers there all MITTPLY the excels of the majority many

Host I have only allowed a 16-bit value for the souls. The

Well, that's all there is to it. Not use it will be intered

anader delegt very of mariculator numbers. I'm add trying to work out how the Romons multiplied CLUX by 1911 /8011 2002 0 , find the other Check If t Is , and the roles

Software Roundup Bu Thomas Holzer

Dest. If we have

Scraward Doe (Aue Com) Cavernia (Zeppetin Games) DGGIDven II (Onto International) and more.....

Lynx Unimate Chay Chaffegge (Telegopos) . Spends good Sonday 2 (US GOLD) Crestal Mines 2 (Color Decarat)

Behotron (Shadawacii).... Jeest (Shedowsoft) Leavings (*1)....... Cen't concreter the company

don't like the came anywer

Xvbots, Carleo, Herd Drivin', Grid Ranner, Toks Viking Child. Rdl and Ted. Cyberhall. NFL. Hoyker. Halber Thunder, Goo Duet, Ownered Plus Golf.

Pertfello SWIR BASIC (DIP Systems, 0433 SECTION)

Four summer each featuring Top Cor, Your Beat, Ruff &

* throy, many more too numerious to mession.

Fun with Stereo Sound on the TT030 & STE By David Troy (C) 1991

EMS muching such as ESME boot disk

deschordplagran John Four TMD of ST RAM neadle. I plugged in that

missian is there, and it rees super fast! if a set another reason why the TT can

So which philosophy did Atan use

This acticle has been so-crimed from the July / America 1997 income of Corwell

even a psycho like Davel". Her there is

selectable but feedend, reven-TT rem rules. Remac sorperan in TTRAM pay

shout 300-400K or store. What takes up

Chinese, the DTP program we all

IT with an SLAMOS (collect). Using a Development and an artifact of the state of production that are all the state of the

THEAMER. That having up should DIS of STEAM, which left more room for contracted or decements and DISA primar driver RAM. But std., it was a fac on time the 450 machine I had been accustomed in So bert I am, with a 6400 machine. So bert I am, with a 6400 machine. The primary of the contraction of the contraction of the contraction. The primary of the contraction of the contraction of the law of the contraction.

Pergolleri, I tamed on the use TT-RAM be. It worked, and it had lost of RAM. I work to genet. I got garbage. You Colomo was using TTRAM, but it was present a mappion of the place in ST RAM where my page should have been So I gift parkage. So, in there a month us.

to RAM is more RA

where he was the way of the deprint and which Periodence appropriate lives under the law of the deprint and the which of the deprint and the defined and its wife to the deprint and the law of the deprint and its wife the law of the deprint and its wife the law of the deprint and its wife the law of the defined and its wife to the law of the defined and its wife to the law of the deprint and the wife to the law of the defined and its wife to the law of the defined and its wife the law of th

STE and the 68583 to the TUDN are at a collamous address 1 To a styrety. Calamous well bestine th lapper very score Pages better and the TT Pages better on the TT at followers much believe on the TT at followers. When a document is not so that TT medium, resolution, bender document and the TT lappe and model. It also assems to be able to deformation theorem ST EAM and TT deformation the terror ST EAM and ST deformation theorem and ST deformation theorem ST EAM and ST deformation the ST deformation theorem ST EAM and ST deformation theorem ST EA

enery tallo 1 get a now in 25 nation; energia de song and a run Premissacied Freshrings 2 f to run on my Mega 572. Example Control Penel account the TV. De problems and down

2.3 to ne on my Mega STE with the Examplatic Consolibrate contained. With the TT, the problems get deeper These are two problems. The SLMMS-665 version has a type in the address for the DMA port. The deservicians a problem on the ST, because, to the support of the deeper of the contained the deeper of the deeper posters the contained to the contained the and in posters the cell residency for the deeper of the contained to the conlained (Shearper) also one some selfilant (Shearper) also one some self-

correctly with the TT's processor accurated.

So, Milks Feshor at Azars, who to be with Nescape (Warsellys, a loader for Ultrascript on the TT's you things. First, it saves the reads of the cache, deadler is, the

lood for Ullmanger on the TY. To does not finger. First, a losses the current one finger. First, a losses the current the Toda, ago on Ullmanner, finase it, energy Ullmanner, finase it, that is back of a long stoney in ease. It has not been seen to the company of from Make. It wends on semant I cally, the man Make. It wends on the man is why a work work on my machine with went with the man in the company of went to the company of work with the other than the work with the off the thin work with the TYT calls on, which is when the off TYT calls on, which is when me the TYT calls on, which is when the TYT calls on the TYT calls on the transport of the TYT and the TYT and

1993

letting go of most of the large people who weren the program I acked Male of Christonian residentially dreat, and because that there was read to go with languar. What that means, I don't listery, but portuge not will see Christonya 400 sometime soon, or all load a comparable, product.

The Caser C TT Meganists

reprodug for the TT and day, "Tubu C has the methat all sown up in Europe whether where the more yet." So, chair their, Bey, where the chell doesn't rout, the competer and intere work you fine where this from a command has interpreted offer convenience in water up. East feel had is shored in write up fine feel programs in Learn C on the TY.

New Sounds on the Alari
When I got the Mega 572, I was
writes how one next about
wronweaghe sorial LAN (Applicable
towpetable) port. Well, I couldn't try

machine but held bet port, and the was, the TT So I wrote a latel program and it, was marly soccould in bopping but I beck and furthern the LAN port Bus Lov Solven connection the LAN port Bus Lov Solven connection, would be paule with Whee I lost mineral or that, I full, but it is solven connection, and it is also in second project the I but award a shalloud a your sep of the map ST Raphy.

mond hardware. The 8 Bit Pulse Code Moduland Same Digitality Stored was a floated of the 1000 Stored was affected as 1000 Stored from any popula see all windows shout. Does stryon use all fire does a world? It my kayclak

Fabre

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Table W - Common Addresses and their

Ensentially, all you have to do in got yourself a basic of RAM (STRAM), all the computer where mix, and then all in to many playing.

The program accompanying this

For hydrogen and Contact play them hack is more or mone, respectively. The handess problem to evercome here is that 57 Replay stress filts in an amount of the hand to the han

means at their within the acoust city about 8. V, it will cause full languaries displacement of the openior, and where is seen a 235, it will cause full positive displacement. The swarmeduse 128 has the effect of not enoving the apoulor at all. These is cost!

The STEAT handware expects their the street of the street of their seen.

off. This is coul. The STEUT'S hardware expects that the scored data be presented a brilla Afformery. Eacher data having the amongsted data, wide 0-525 as the mage, the they were rapped data, wide 0-525 as the mage, the they were rapped data, wide 0-525 as the mage, the they were rapped data, with it may be supported to 1-127 and find positive displacement in 1.128. Zone is now the sommerbase value, and it has the tenser effect 1.28 in one 57 Floriday formest, of

one that we need to create a Jacob on that magnification emograte that soft eagend data. Assor's above of mapping their squed valors multiconference writing fairly eary. The do south facilities of placing and the south of the placing and the south and the 178 through 355 are not placed forcing 1.1 So say go from \$17 Septing.

des 120 enrique las par trains 1-10 elevery 1-10 elevery

ii. This does not or our remapping. When the somethor's version among mode, it friches one eight-bit byte at a friches one eight-bit byte at a three the sample spend through both the left and right sound ports. When the sound hardware is in memor mode, it finishes a 16-bit word as sinus, each word containing revolver.

chemed, the left channel being in the right helf and the right channel in the 16th Of makes some if you about history in if we stad in two ST Replay former sound files to be played in curva, we have be given by a continue of the left and the stade of the stade of the left and the stade of t (Collins and Collins and Colli

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ord) /* fates (aft and right data and anables into blace)

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The mount advers for Superhamer available. The sies for a real SVGA mally senter a les of mornie.

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By Paul Brookes

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